

PHOTOFACT® Folder

with CIRCUITRACE™

LLOYD'S MODEL
J261 (Series 299A)

For Supplier Address See PHOTOFACT Index

LLOYD'S MODEL
J261 (Series 299A)LLOYD'S MODEL
J261 (Series 299A)

Model J261

HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

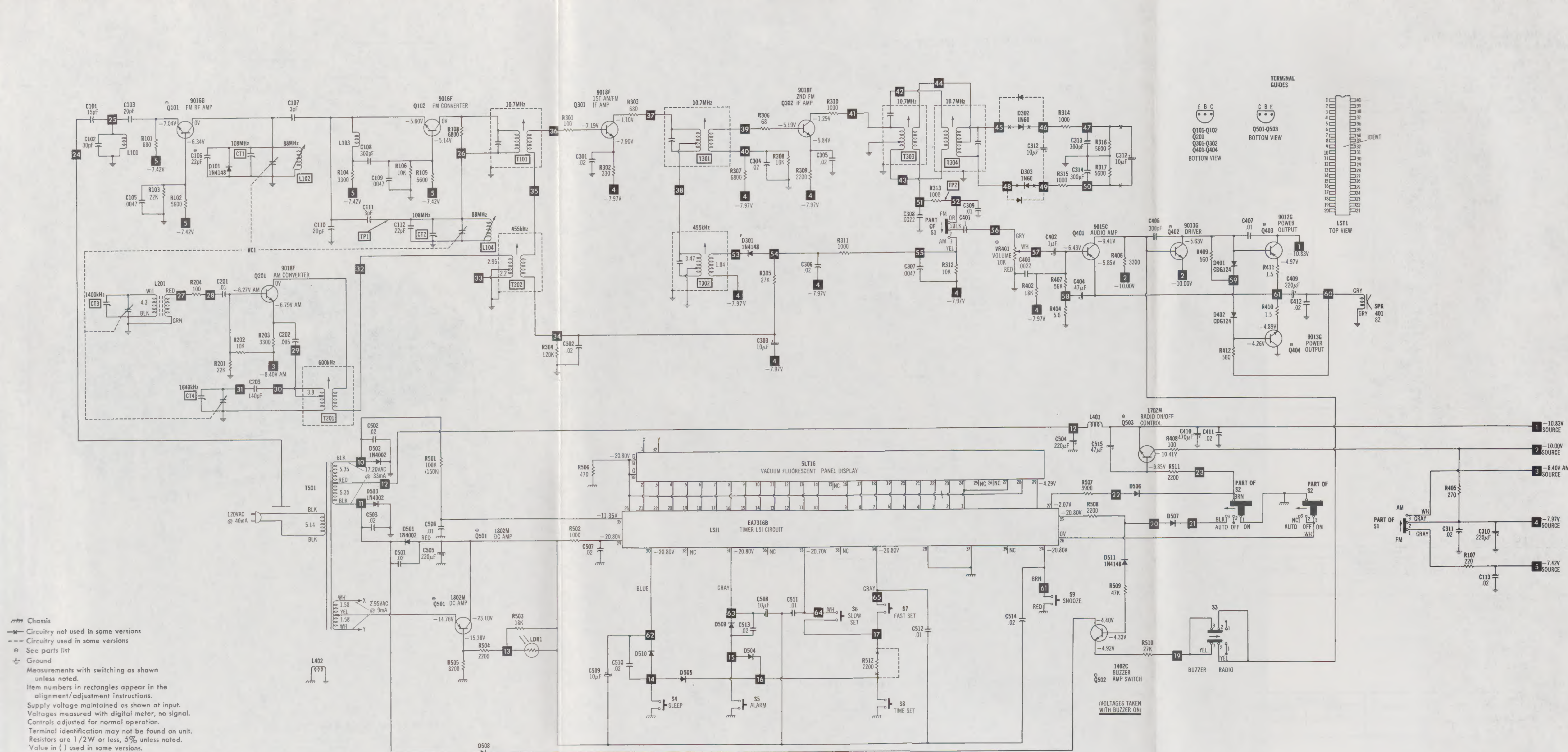
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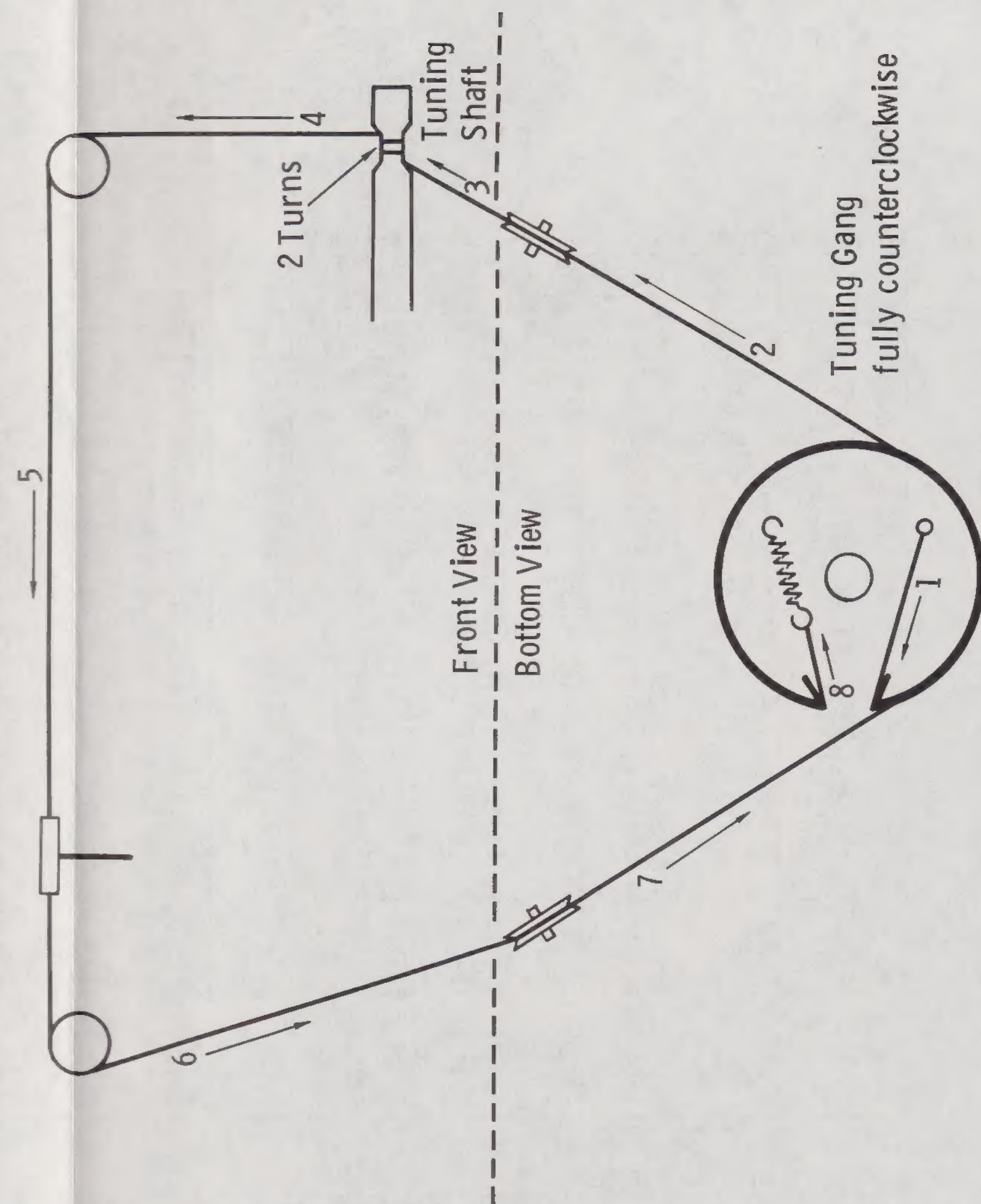
DATE 2 -80

SET 1879 FOLDER 4





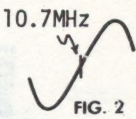
DIAL CORD STRINGING



ALIGNMENT INSTRUCTIONS

CAUTION: Use isolation transformer or observe polarity when connecting test equipment. Connect low sides of generator and indicator to ground unless specified otherwise. Maintain line voltage at 120V AC. Allow a 15-minute warm-up period. Use only enough generator output to obtain a suitable indication.

Suggested Alignment Tools: GC ELECTRONICS:
ALL Coils and Trimmers 5000, 8276, 9089



AM ALIGNMENT—SELECTOR IN AM POSITION

Connect generator across loop fashioned of several turns of wire. Set volume at maximum.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
455kHz 400-hertz Modulation	Tuning gang fully open	Output meter across voice coil	T302,T202	Adjust for maximum. Repeat until no further improvement is noted.
600kHz	600kHz	"	T201	Adjust for maximum.
1640kHz	1640kHz	"	CT4	Adjust for maximum.
1400kHz	1400kHz	"	CT3	Adjust for maximum. Repeat AM alignment until no further improvement is noted.

FM IF ALIGNMENT USING AM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001uF to TP1.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz Unmodulated	Point of non- interference	DC probe of VTVM to TP2.	T304,T303, T301,T101	Adjust for maximum.

FM IF ALIGNMENT USING FM SIGNAL GENERATOR—SELECTOR IN FM POSITION

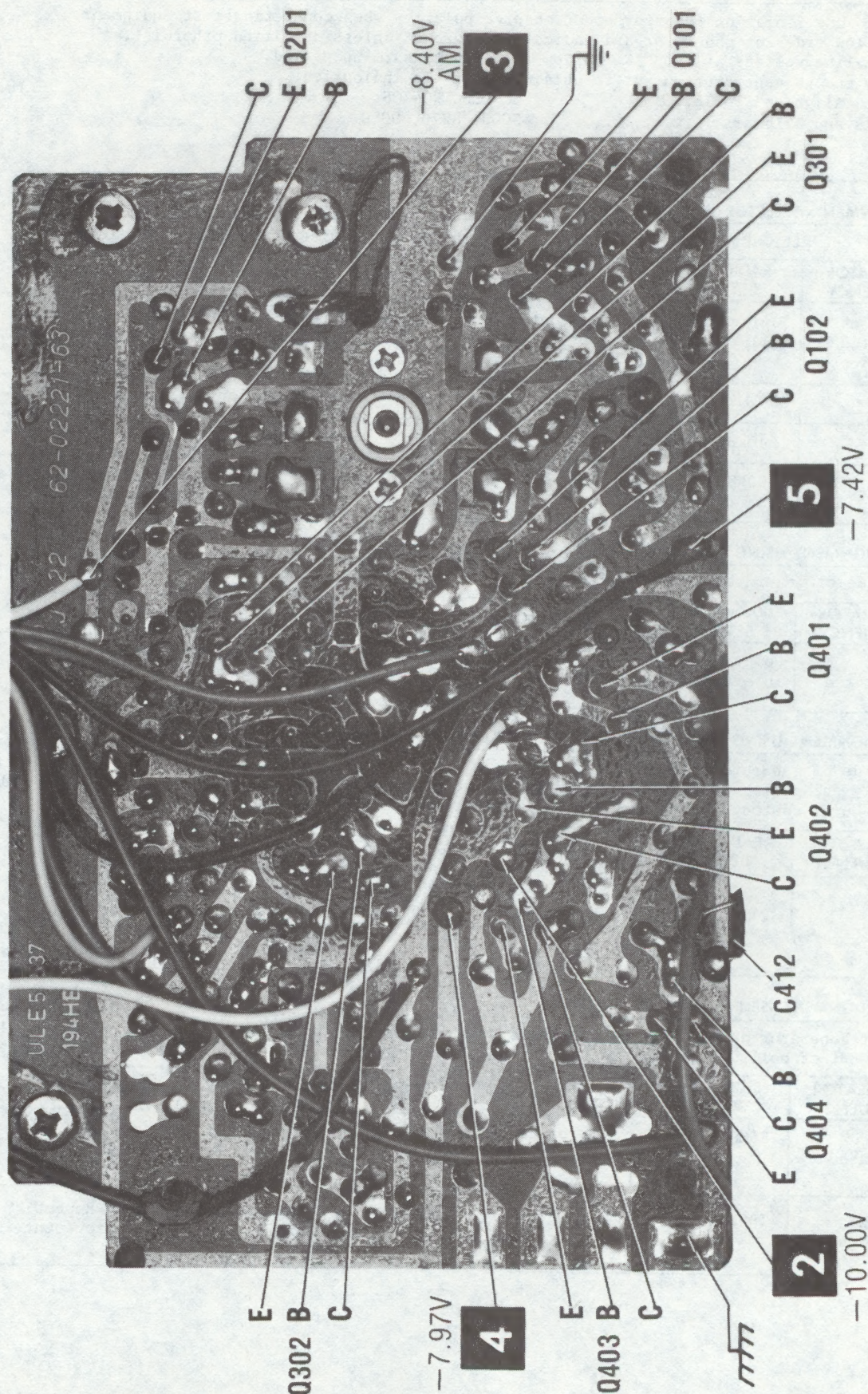
High side of generator thru .001uF to TP1. Use only enough marker signal for indication. Use 60-hertz, frequency-modulated signal, 450kHz sweep. Use 60-hertz sawtooth voltage in scope for horizontal deflection.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
"	"	Vert input of scope to TP2.	T304,T303, T301,T101	Adjust T304 to place marker at center of S curve similar to Fig. 2. Readjust T303, T301, T101 for maximum amplitude and straightness of line.

FM RF ALIGNMENT—SELECTOR IN FM POSITION

Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead. Adjustment of coils by bending should not be attempted unless the coil is deformed or replaced.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
88MHz Modulated	88MHz	AC probe of VTVM to speaker.	L104,L102	Adjust for maximum.
108MHz Modulated	108MHz	"	CT2,CT1	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

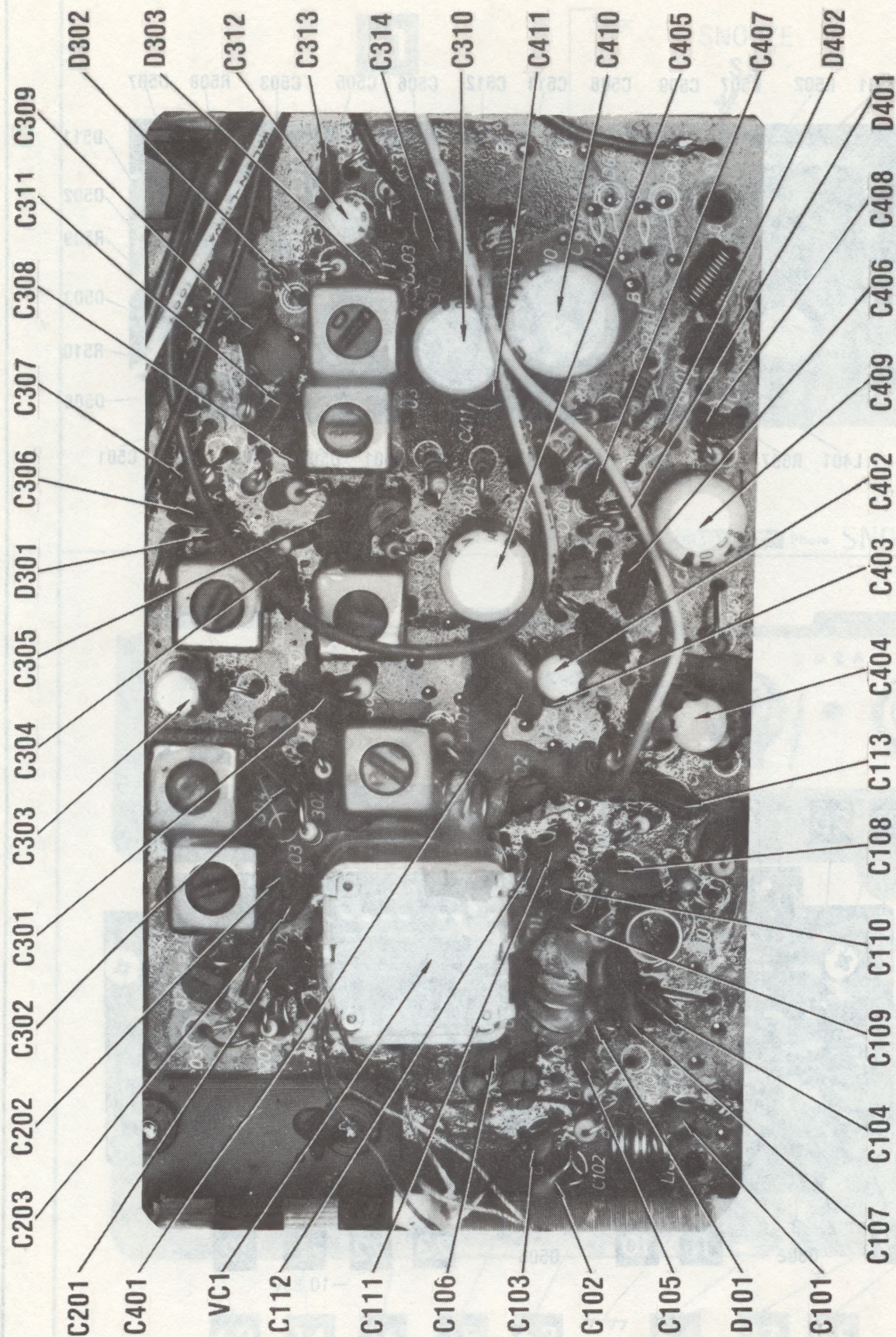
LLOYD'S MODEL
J261 (Series 299A)

FOLDER 4



RADIO BOARD

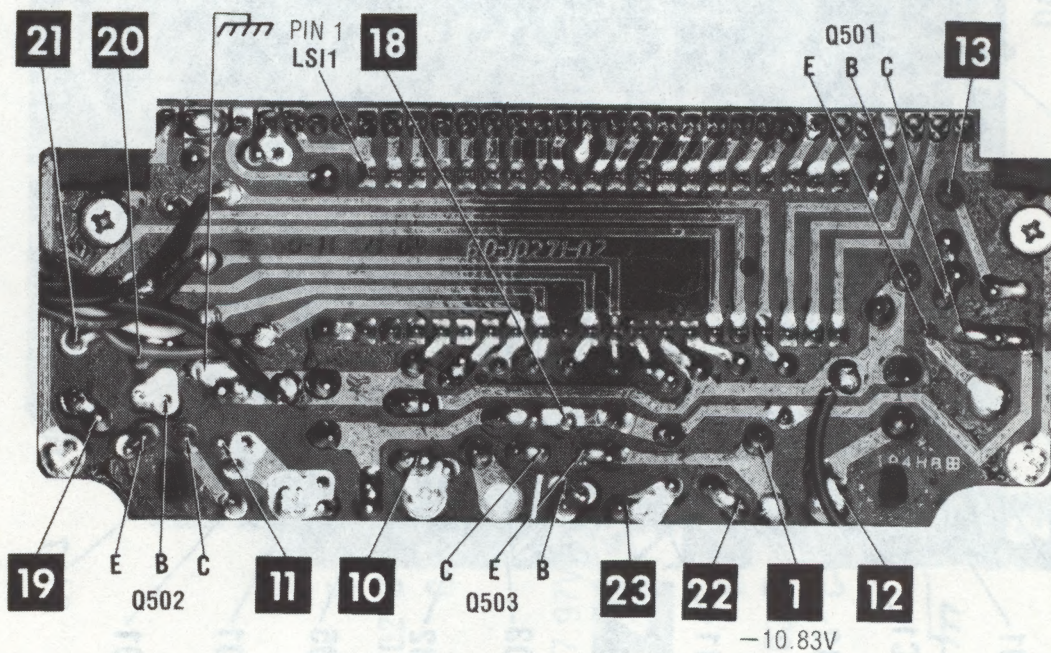
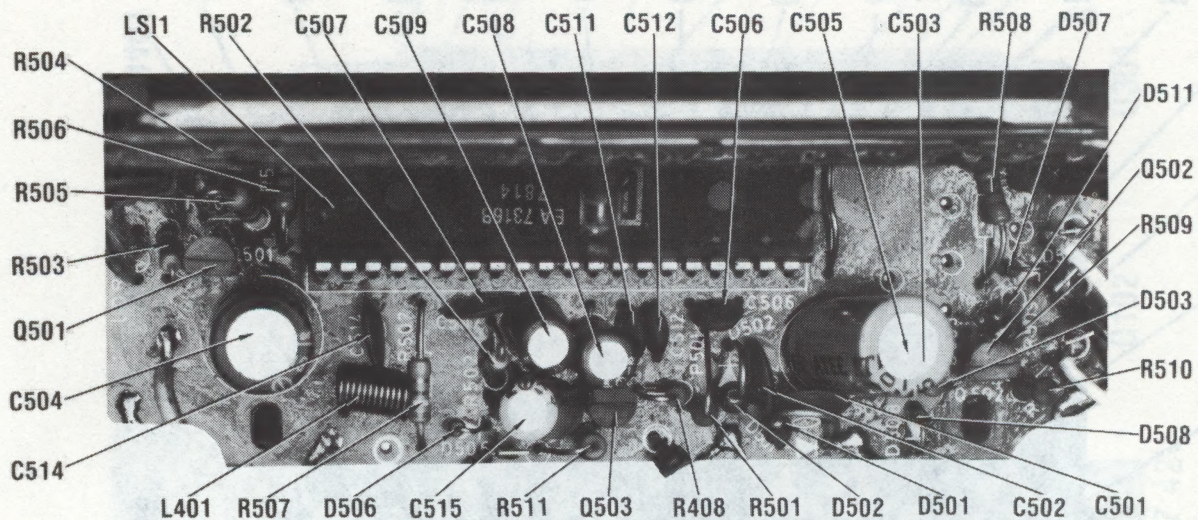
A Howard W. Sams CIRCUITRACE® Photo



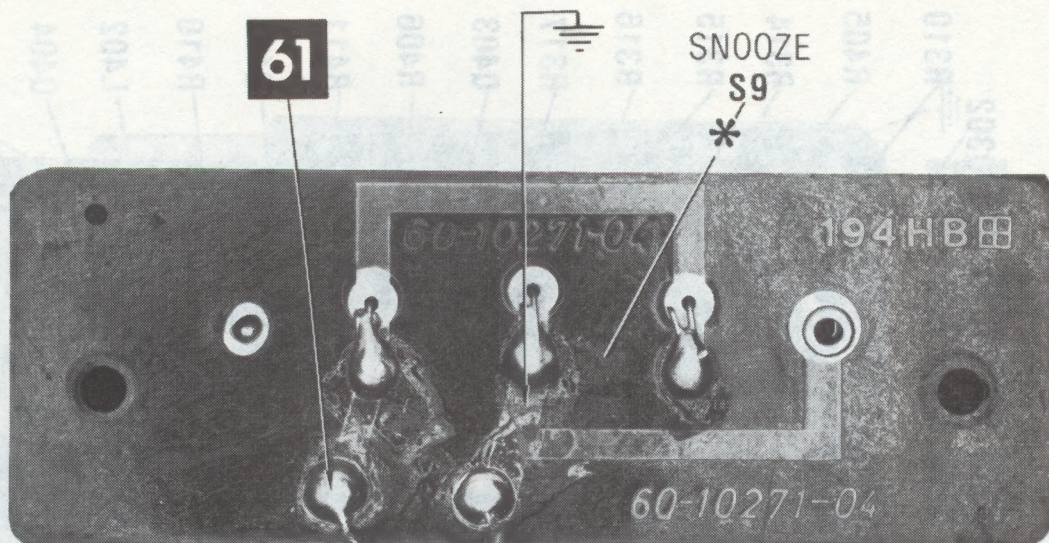
RADIO BOARD

LLOYD'S MODEL
J 621 (Series 209A)

FOLDER 4

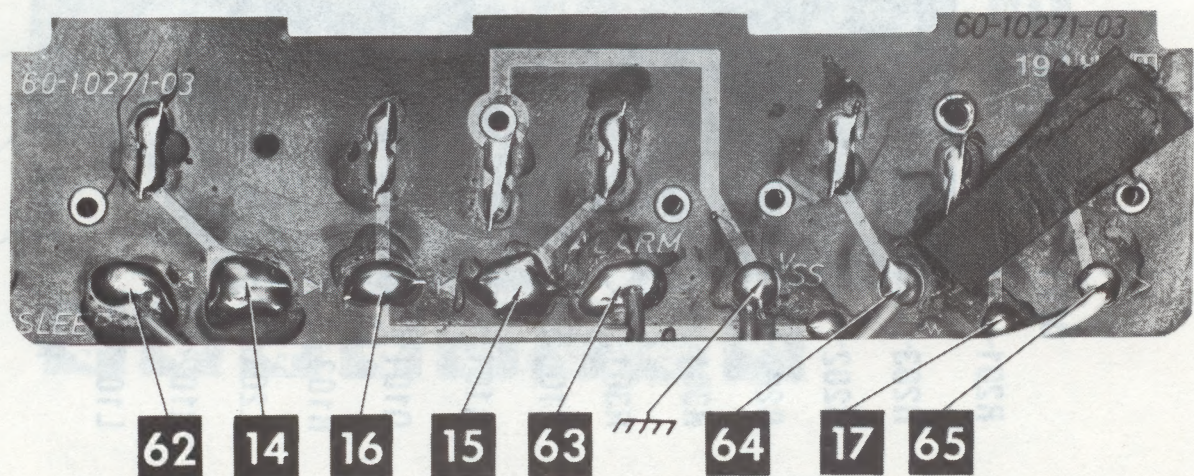
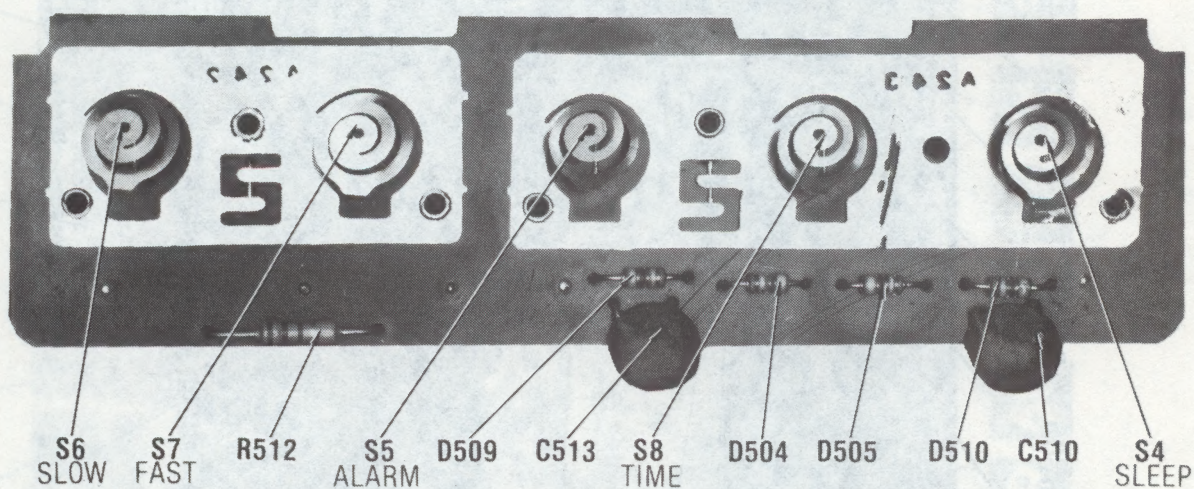


CLOCK BOARD A Howard W. Sams **CIRCUITRACE®** Photo



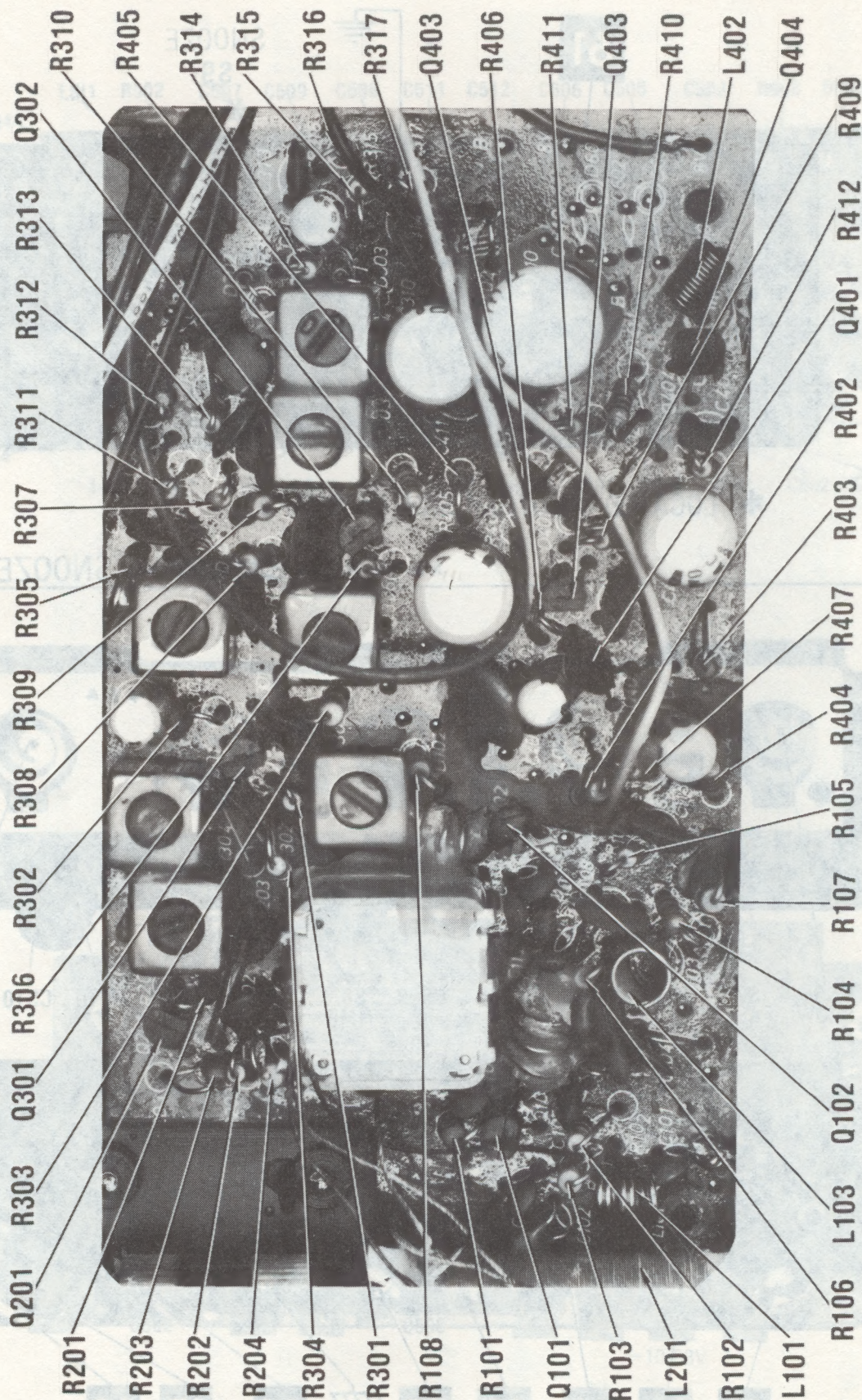
* LOCATED ON OTHER SIDE OF BOARD

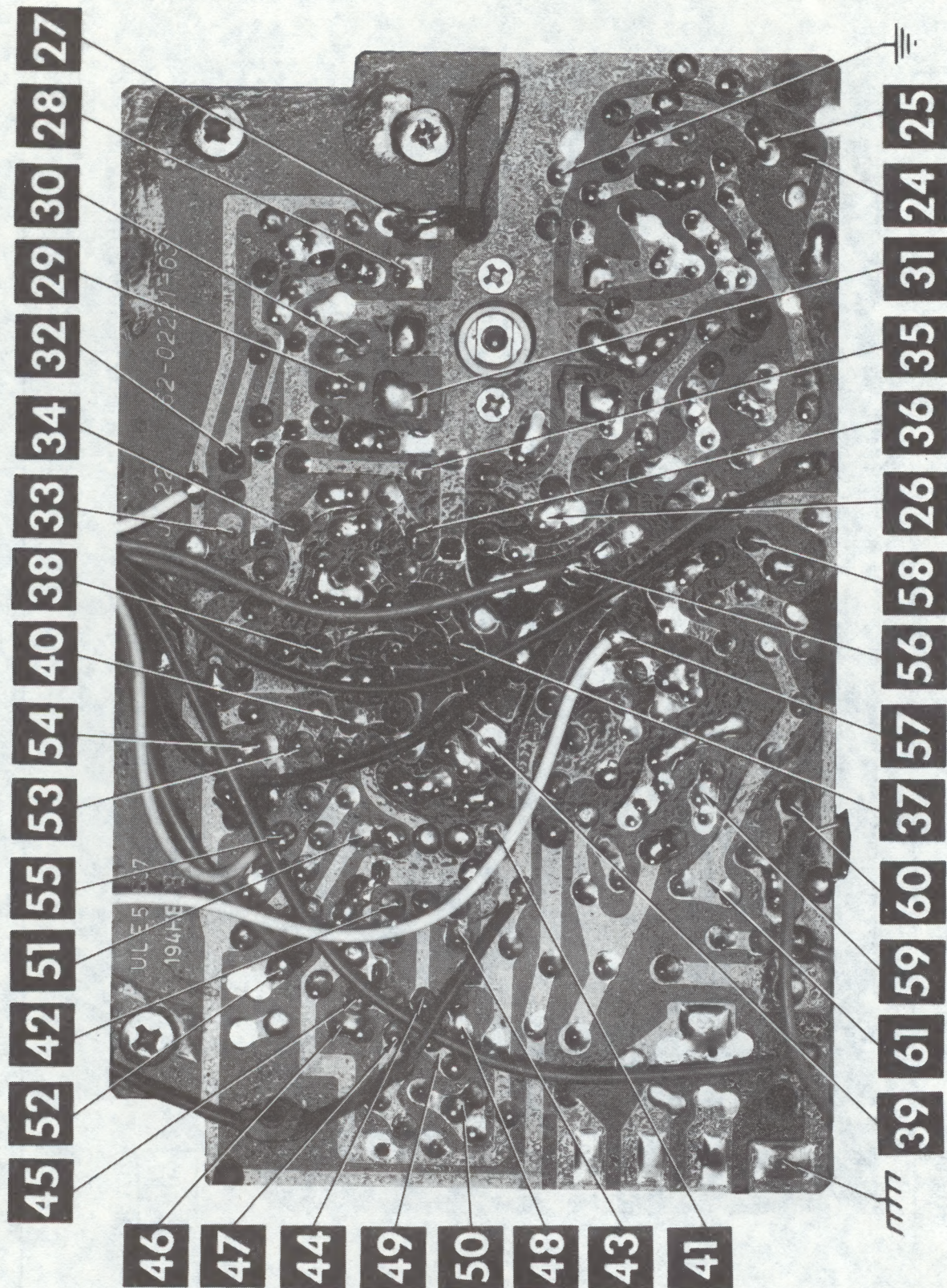
A Howard W. Sams **CIRCUITRACE®** Photo **SNOOZE BOARD**

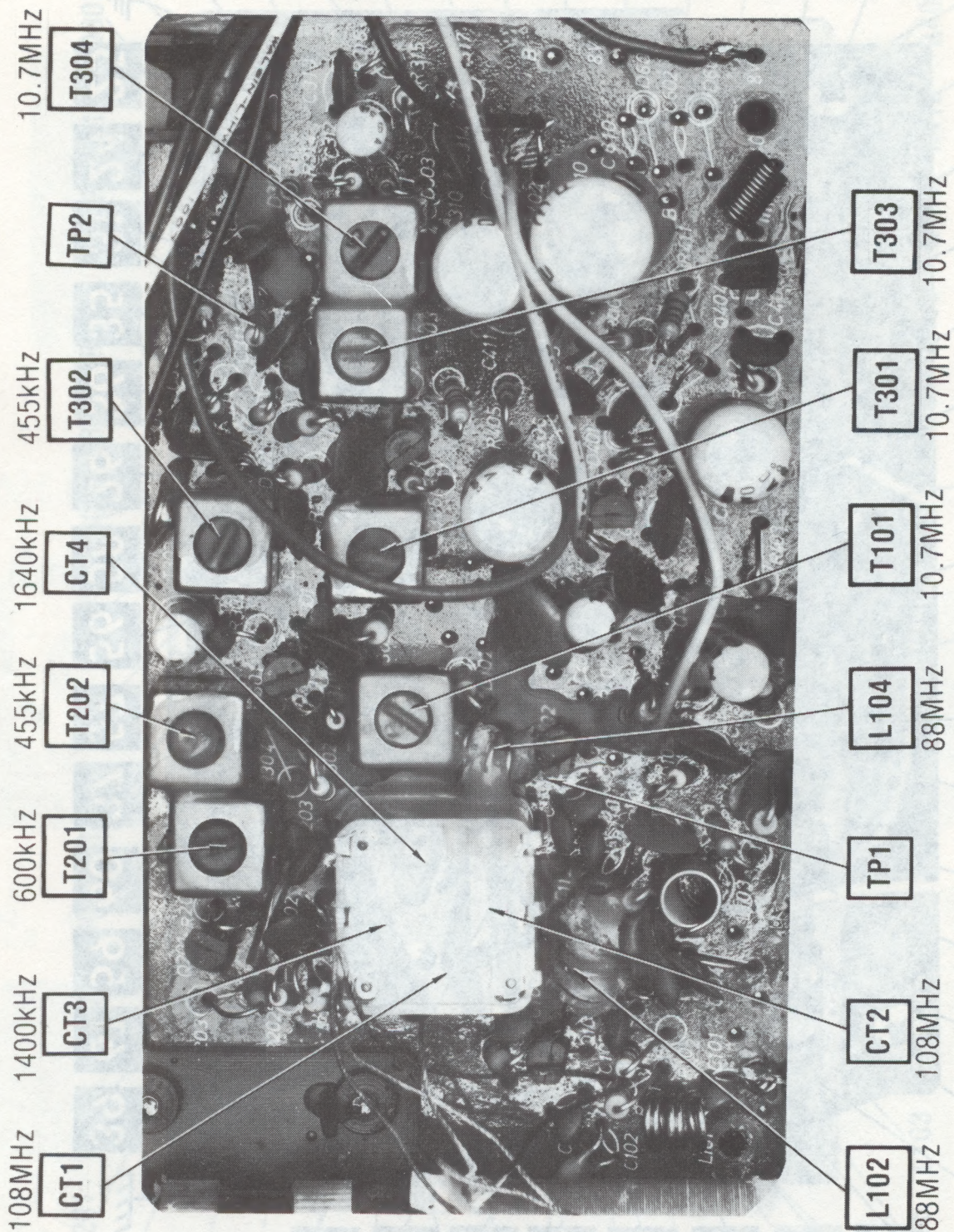


A Howard W. Sams **CIRCUITRACE®** Photo **SWITCH BOARD**

RADIO BOARD







RADIO BOARD

PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8528 (Solid) Available in 12 Colors 8522 (Stranded) Available in 12 Colors
Power Cord	Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) - 6 Ft. 17109 (Plastic) or 17129 (Rubber) - 9 Ft.
Low-loss Shielded Lead (Interconnecting) .	Use BELDEN No. 8401 or 8421

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D101	1N4148	HF-20063	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
D301	1N4148	HF-20063	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
D302	1N60	HE-10002	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134/109	103-29001
D303	1N60	HE-10002	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134/109	103-29001
D401	CDG24	HN-00002	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D402	CDG24	HN-00002	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D501	1N4944	JC-00047	GE-504A	PTC201	REN 116	SK3312	ECG116	TM116	WEP157	212-76-02
D502	1N4002	JC-00047	GE-504A	1N4002	REN 116	SK3312	ECG116	TM116	WEP156	212-76-02
	1N4944		GE-504A	PTC201	REN 116	SK3312	ECG116	TM116	WEP157	212-76-02
D503	1N4002	JC-00047	GE-504A	1N4002	REN 116	SK3312	ECG116	TM116	WEP156	212-76-02
	1N4148		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
D504	1N4148	HF-20063	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
D505	1N4148	HF-20063	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
D506	1N4148	HF-20063	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
D507	1N4148	HF-20063	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
D508	1N4148	HF-20063	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
D509	1N4148	HF-20063	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
D510	1N4148	HF-20063	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
D511	1N4148	HF-20063	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
LS11	EA7316B	PC-20108								
Q101	9016F	HS-40017	GE-61*	PTC132*	REN 229*	SK3246/229*	ECG229*	TM229*	WEP956/229*	121-29021*
Q102	CS9016F		GE-61*	PTC132*	REN 229*	SK3246/229*	ECG229*	TM229*	WEP956/229*	121-29021*
Q102	9016F	HS-40017	GE-61*	PTC132*	REN 229*	SK3246/229*	ECG229*	TM229*	WEP956/229*	121-29021*
Q102	CS9016F		GE-61*	PTC132*	REN 229*	SK3246/229*	ECG229*	TM229*	WEP956/229*	121-29021*
Q201	9018F	HS-40019	GE-86*	PTC132*	REN 108	SK3452/108	ECG108	TM108	WEP56/108	121-522
Q201	CS9018F		GE-86*	PTC132*	REN 108	SK3452/108	ECG108	TM108	WEP56/108	121-522
Q301	9018F	HS-40019	GE-86*	PTC132*	REN 108	SK3452/108	ECG108	TM108	WEP56/108	121-522
Q301	CS9018F		GE-86*	PTC132*	REN 108	SK3452/108	ECG108	TM108	WEP56/108	121-522
Q302	9018F	HS-40019	GE-86*	PTC132*	REN 108	SK3452/108	ECG108	TM108	WEP56/108	121-522
Q302	CS9018F		GE-86*	PTC132*	REN 108	SK3452/108	ECG108	TM108	WEP56/108	121-522
Q401	9015C	HS-40035	GE-82	PTC103	REN 159	SK3466/159	ECG159	TM159	WEP62/159	121-29003
Q401	CS9015C		GE-82	PTC103	REN 159	SK3466/159	ECG159	TM159	WEP62/159	121-29003
Q402	9013F	HS-40016	GE-20	PTC136	REN 123A	SK3444/123A	ECG123A	TM123A	WEP736/123A	121-29000A
Q402	CS9013G		GE-20	PTC136	REN 123A	SK3444/123A	ECG123A	TM123A	WEP736/123A	121-29000A
Q403	9012G	HS-40027	GE-82	PTC103	REN 159	SK3466/159	ECG159	TM159	WEP62/159	121-29003
Q403	CS9012G		GE-82	PTC103	REN 159	SK3466/159	ECG159	TM159	WEP62/159	121-29003
Q404	9013F	HS-40016	GE-20	PTC136	REN 123A	SK3444/123A	ECG123A	TM123A	WEP736/123A	121-29003
Q404	9013G		GE-20	PTC136	REN 123A	SK3444/123A	ECG123A	TM123A	WEP736/123A	121-29003
Q501	CS9013G	HX-50171	GE-20	PTC136	REN 123A	SK3444/123A	ECG123A	TM123A	WEP736/123A	121-29003
Q501	ST1802M		GE-48*	PTC142	REN 294*	SK3138/193*	ECG294*	TM294*	WEP916/294	121-29019*
Q501	1802M	HX-50172	GE-48*	PTC142	REN 294*	SK3138/193*	ECG294*	TM294*	WEP916/294	121-29019*
Q501	1802M		GE-48*	PTC142	REN 294*	SK3138/193*	ECG294*	TM294*	WEP916/294	121-29019*
Q502	ST1402C	HX-50172	GE-20	PTC136	REN 123A	SK3444/123A	ECG123A	TM123A	WEP736	121-29000A
Q502	1402B		GE-20	PTC136	REN 123A	SK3444/123A	ECG123A	TM123A	WEP736	121-29000A
Q502	1402C	HX-50173	GE-20	PTC136	REN 123A	SK3444/123A	ECG123A	TM123A	WEP736	121-29000A
Q502	ST1702M		GE-47	PTC143	REN 293*	SK3137/192*	ECG293*	TM293*	WEP912/293	121-29014
Q503	ST1702N	HX-50173	GE-47	PTC143	REN 293*	SK3137/192*	ECG293*	TM293*	WEP912/293	121-29014
Q503	1702M		GE-47	PTC143	REN 293*	SK3137/192*	ECG293*	TM293*	WEP912/293	121-29014
Q503	1702N		GE-47	PTC143	REN 293*	SK3137/192*	ECG293*	TM293*	WEP912/293	121-29014

* Lead configuration may vary from original.

/** Also available as exact type replacement.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C303	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C310	220 10V		PC250-10	VTT220F10	QV1-115	EV-1140
C312	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C402	1 16V		PC1-50	VTT1A50	QV1-11	EV-1615
C404	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226
C405	220 10V		PC250-10	VTT220F10	QV1-115	EV-1140
C409	220 10V		PC250-10	VTT220F10	QV1-115	EV-1140
C410	470 16V		PC500-16	VTT470K16	QV1-151	EV-1251
C504	220 16V		PC250-25	VTT220H16	QV1-117	EV-1240
C805	220 25V		PC250-25	VTT220K25	QV1-119	EV-1340
C508	10 25V		PC10-25	VTT10B25		EV-1422
C509	10 25V		PC10-25	VTT10B25		EV-1422
C515	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

CAPACITORS

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C101	15 50V	BU-2400B(1)	NP015	CN0415	QCC2-22 QCC2-19	10TCC-Q15
C102	30 50V		NP033	CN0433		10TCC-Q33
C103	20 50V		NP020	CN0420		10TCC-Q20
C105	.0047 50V		GP4700	GP247	QCC2-19	5GA-D47
C106	22 50V		NP022	CN0422		10TCC-Q22
C107	3 50V		NP03P3	CN0533		10TCC-V33
C108	300 50V		GP300	GP330		10TS-T30
C109	.0047 50V		GP4700	GP247		5GA-D47
C110	20 50V		NP020	CN0420		10TCC-Q20
C111	3 50V		NP03P3	CN0533		10TCC-V33
C112	22 50V		NP022	CN0422		10TCC-Q22
C113	.02 50V		MGP005	MAG5012	QC2-123	TG-D50 10TCC-T15
C201	.01 50V			MAG5011		
C202	.005 50V			TA250		
C203	140 50V			CN0315		
C301	.02 50V			MAG5012		
C302	.02 50V		GP4700	MAG5012	QCT2-46	5GA-D47 10TS-D22
C304	.02 50V			MAG5012		
C305	.02 50V			MAG5012		
C306	.02 50V			MAG5012		
C307	.0047 50V			GP247		
C308	.0022 50V		GP300	GP222	QC2-97	5GA-D22 10TS-T30
C309	.01 50V			MAG5011		
C311	.02 50V			MAG5012		
C313	300 50V 10%		GP300	GP330	QCC2-19	10TS-T30
C314	300 50V 10%		GP300	GP330		10TS-T30
C401	.1		GP300	MAG5001		5GA-D22 10TS-T30
C403	.0022 50V			GP222		
C406	300 50V 10%			GP330		
C407	.01 50V			MAG5011		
C411	.02 50V			MAG5012		
C412	.02 50V			MAG5012		
C501	.02 50V			MAG5012		
C502	.02 50V			MAG5012		
C503	.02 50V			MAG5012		
C506	.01 50V			MAG5011		
C507	.02 50V			MAG5012		
C510	.02 50V			MAG5012		
C511	.01 50V			MAG5011		
C512	.01 50V			MAG5011		
C513	.02 50V			MAG5012		
C514	.02 50V			MAG5012		
VC1				MAG5012		

(1) Includes CT1, CT2, CT3, CT4.

CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA		
			MFGR. PART No.	MALLORY PART No.	TRW PART No.
VR401	Volume Volume	10K 20K	AW-31024(6)		

(6) Alternate part, may be used in some versions.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		MFGR. PART No.	WORKMAN PART No.			MFGR. PART No.	WORKMAN PART No.
LDR1	LDR	HX-50174					

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L101	FM Antenna	DK-01071			
L102	FM RF (88MHz)	DO-01072			
L103	FM IF Trap	DX-01074			
L104	FM Oscillator (88MHz)	DO-00667			
L201	AM Antenna	DI-01127			
L401	RF Choke	DQ-01125			
L402	RF Choke	DQ-01125			
T101	FM IF (10.7MHz)	EN-00972			
T201	AM Oscillator (600kHz)	DM-01100			
T202	AM IF (455kHz)	EM-00949			
T301	FM IF (10.7MHz)	EN-00972			
T302	AM IF (455kHz)	EM-00951			
T303	FM IF (10.7MHz)	EN-00931			
T304	FM IF (10.7MHz)	EN-00932			

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T501	120V AC @ 40mA AC	17.20V AC @ 33mA DC	EJ-00843			
	SEC. 2 2.95V AC @ 9mA AC					

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SPK401	3" PM, 8 Ohms	GA-19410	30A05Z8R	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
S1	Switch	FC-73166	AM/FM
S2	Switch	FC-73165	On/Off/Auto
S3	Switch		Buzzer/Radio
S4	Switch		Sleep
S5	Switch		Alarm
S6	Switch		Slow Set
S7	Switch		Fast Set
S8	Switch		Time Set
S9	Switch	FB-73050	Snooze
	LED	HG-00018	Channel Display

CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

ITEM	PART No.	ITEM	PART No.
Cabinet Bottom	LB-06008	Knob-Slide Switch (2 used)	LH-05026
Cabinet Top	LB-05019	Knob-Tuning	LH-05023
Dial Scale Plate	LC-05397	Knob-Volume	LH-05027
Dial Drum	QE-02339	Top Trim	LC-05530
Dial Pointer	FQ-07910	Front Panel	LB-05527
Button-Snooze	LH-05024	Front Window	LB-05022
Button-Timer (4 used)	LH-05025	Lens-Auto Dimmer	LR-05529
		Lens-Filter (Green)	LB-05528